JAN 2 5 2005

Section II

510(k) SUMMARY

This summary of 510(k) safety and effectiveness information is submitted in accordance with the requirements of SMDA 1990 and 21 CFR 807.92.

510(k) Number:

Date	December 30, 2004
	Intuitive Surgical, Inc.
Submitter	950 Kifer Road
Submitter	Sunnyvale, CA 94086
	Sullity vale, CA 34000
ER Number	2955842
	Mike Yramategui
Contact	Director, Regulatory Affairs
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Subject	Name: Intuitive Surgical® da Vinci® Surgical System and Endoscopic
Device Device	Instruments
Device	
	Classification Name: System, Surgical, Computer Controlled Instrument
	(21 CFR 876.1500)
	Common Name: Endoscopic Instrument, Monopolar Curved Scissors
.	Taking Caring to War & Caring Care
Predicate	Intuitive Surgical® da Vinci® Surgical System and Endoscopic
Devices	Instruments (legally marketed under K990144 / K002489 / K011002 /
	K013416 / K021036 / K022574 / K040237 / K043153)
Device	This special 510(k) is being submitted for a modification to the
Description	endoscopic instruments to incorporate monopolar electrosurgical
	capability on an endoscopic curved scissor instrument. This modification
	affects the instrument only and there are no changes in the design,
	technology, materials, manufacturing, performance, specifications, and
	method of use for the da Vinci [®] Surgical System.
	- ·
	The endoscopic instruments are used with the da Vinci® Surgical System
	which consists of two integrated sub-systems as follows:

Device Description (continued)

Intuitive Surgical® Endoscopic Instrument Control System: This subsystem is comprised of the Surgeon Console and Patient Side Cart. While seated at the Surgeon Console, the surgeon controls critical aspects of the procedure, including movement of the endoscopic instruments and endoscope, within the operative field. Endoscopic instrument and camera movements are controlled by the surgeon through use of the Master Tool Manipulators (MTM), two hand operated mechanisms residing within the Surgeon Console. The endoscopic instruments are held in a fixed position (with respect to the patient) by either two (or optionally three) unique arms known as Patient Side Manipulators (PSM), which are located on the Patient Side Cart (PSC). The endoscope is also held in a fixed position (with respect to the patient) by another arm, similar to the PSM, known as the Endoscope Camera Manipulator (ECM) and also located on the PSC. Commands from the Surgeon Console are relayed to the PSC, which is located immediately adjacent to the patient, via cables. Instrument and endoscope changes are performed by another provider positioned adjacent to the PSC.

Intuitive Surgical® Stereo View Endoscopic System: The endoscopic vision system used with the da Vinci® Surgical System, also known as Intuitive Surgical® Insite™ Vision System, consists of a stereo endoscope, endoscopic camera, and various accessories, including a light source and light guides. The Insite™ Vision System provides two independent images that are relayed to the viewer located in the Surgeon Console, where they are fused to form a 3-D (or alternatively a 2-D image) image of the surgical field.

Intended Use

The Intuitive Surgical® Endoscopic Instrument Control System is intended to assist in the accurate control of Intuitive Surgical® Endoscopic Instruments including rigid endoscopes, blunt and sharp endoscopic dissectors, scissors, scalpels, ultrasonic shears, forceps/pickups, needle holders, endoscopic retractors, stabilizers, electrocautery and accessories for endoscopic manipulation of tissue, including grasping, and sharp dissection. approximation, ligation. cutting, electrocautery, suturing and delivery and placement of microwave ablation probes and accessories during general laparoscopic surgical non-cardiovascular thoracoscopic procedures. general procedures, and thoracoscopically assisted cardiotomy procedures. The system can also be employed, with adjunctive mediastinotomy to perform coronary anastomosis during cardiac revascularization. It is intended for use by trained physicians in an operating room environment in accordance with the representative specific procedures set forth in the Professional Instructions for Use.

Comparison to Predicate Device

The design, technology, materials, manufacturing methods, performance, specifications and methods of use are essentially the same for the Monopolar Curved Scissors as for other Intuitive Surgical Endoscopic Instruments with the primary difference being that monopolar electrosurgical capability is incorporated into a curved scissor instrument. There are no changes in the design, technology, materials, manufacturing, performance, specifications, and method of use for the da Vinci® Surgical System

Technological Characteristics

The technological characteristics of the subject devices are essentially the same as for the predicate devices.

Performance Data

Design analysis and comparison, as well as bench testing, has been conducted to confirm that basic functional characteristics are substantially equivalent to the predicate devices cited, and that design output meets the design input requirements.

Conclusion

Based upon the technical information, intended use, and performance information provided in this pre-market notification, the da Vinci[®] Surgical System and Monopolar Curved Scissors described herein has been shown to be substantially equivalent to current legally marketed predicate devices, and the results of the design control process confirm that the design output meets the design input requirements.





JAN 2 5 2005

Food and Drug Administration 9200 Corporate Boulevard Rockville MD 20850

Mr. Michael Yramategui Director, Regulatory Affairs Intuitive Surgical, Inc. 950 Kifer Road Sunnyvale, California 94086

Re: K050005

Trade/Device Name: Intuitive Surgical® Endoscopic Instrument Control System

Regulation Number: 21 CFR 876.1500

Regulation Name: Endoscope and accessoreis

Regulatory Class: II Product Code: NAY

Dated: December 30, 2004 Received: January 3, 2005

Dear Mr. Yramategui:

We have reviewed your Section 510(k) premarket notification of intent to market the device referenced above and have determined the device is substantially equivalent (for the indications for use stated in the enclosure) to legally marketed predicate devices marketed in interstate commerce prior to May 28, 1976, the enactment date of the Medical Device Amendments, or to devices that have been reclassified in accordance with the provisions of the Federal Food, Drug, and Cosmetic Act (Act) that do not require approval of a premarket approval application (PMA). You may, therefore, market the device, subject to the general controls provisions of the Act. The general controls provisions of the Act include requirements for annual registration, listing of devices, good manufacturing practice, labeling, and prohibitions against misbranding and adulteration.

If your device is classified (see above) into either class II (Special Controls) or class III (PMA), it may be subject to such additional controls. Existing major regulations affecting your device can be found in the Code of Federal Regulations, Title 21, Parts 800 to 898. In addition, FDA may publish further announcements concerning your device in the <u>Federal Register</u>.

Please be advised that FDA's issuance of a substantial equivalence determination does not mean that FDA has made a determination that your device complies with other requirements of the Act or any Federal statutes and regulations administered by other Federal agencies. You must comply with all the Act's requirements, including, but not limited to: registration and listing (21 CFR Part 807); labeling (21 CFR Part 801); good manufacturing practice requirements as set forth in the quality systems (QS) regulation (21 CFR Part 820); and if applicable, the electronic product radiation control provisions (Sections 531-542 of the Act); 21 CFR 1000-1050.

Page 2 – Mr. Michael Yramategui

This letter will allow you to begin marketing your device as described in your Section 510(k) premarket notification. The FDA finding of substantial equivalence of your device to a legally marketed predicate device results in a classification for your device and thus, permits your device to proceed to the market.

If you desire specific advice for your device on our labeling regulation (21 CFR Part 801), please contact the Office of Compliance at (240) 276-0115. Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21 CFR Part 807.97). You may obtain other general information on your responsibilities under the Act from the Division of Small Manufacturers, International and Consumer Assistance at its toll-free number (800) 638-2041 or (301) 443-6597 or at its Internet address http://www.fda.gov/cdrh/industry/support/index.html.

Sincerely yours,

Celia M. Witten, Ph.D., M.D.

Director

Division of General, Restorative and Neurological Devices

Miriam C. Provost

Office of Device Evaluation

Center for Devices and Radiological Health

Enclosure

Indications for Use

510(k) Number (if known):

Device Name:

Intuitive Surgical® Endoscopic Instrument Control System

Indications For Use:

The Intuitive Surgical® Endoscopic Instrument Control System is intended to assist in the accurate control of Intuitive Surgical® Endoscopic Instruments including rigid endoscopes, blunt and sharp endoscopic dissectors, scissors, scalpels, ultrasonic shears, forceps/pick-ups, needle holders, endoscopic retractors, stabilizers, electrocautery and accessories for endoscopic manipulation of tissue, including grasping, cutting, blunt and sharp dissection, approximation, ligation, electrocautery, suturing, and delivery and placement of microwave ablation probes and accessories during general laparoscopic surgical procedures, general non-cardiovascular thoracoscopic surgical procedures, and thoracoscopically assisted cardiotomy procedures. The system can also be employed, with adjunctive mediastinotomy to perform coronary anastomosis during cardiac revascularization. It is intended for use by trained physicians in an operating room environment in accordance with the representative specific procedures set forth in the Professional Instructions for Use.

Prescription Use X (Part 21 CFR 801 Subpart D)

AND/OR

Over-The-Counter Use____(21 CFR 807 Subpart C)

(PLEASE DO NOT WRITE BELOW THIS LINE-CONTINUE ON ANOTHER PAGE IF NEEDED)

Concurrence of CDRH, Office of Device Evaluation (ODE)

(Division Sign-Off)

Division of General, Restorative, and Neurological Devices

Miriam C. Provost

510(k) Number K650005

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